



Form PTO-1449 U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No. BDG024-1		Serial No. 10/719,823		
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				Applicant Chuen Rong Leu et al.				
				Filing Date November 21, 2003		Group Art Unit 2818		
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
PD	AA	5,353,498	10/1994	Fillion et al.	29	840	—	
↑	AB	5,668,405	09/1997	Yamashita	257	668	—	
	AC	5,856,212	01/1999	Chun	438	126	—	
	AD	6,038,133	03/2000	Nakatani et al.	361	760	—	
	AE	6,359,235	03/2002	Hayashi	174	260	—	
	AF	6,492,597	12/2002	Fujii et al.	174	255	—	
↓	AG	6,538,210	03/2003	Sugaya et al.	174	258	—	
PD	AH	6,774,467	08/2004	Horiuchi et al.	257	673	—	
	AI							
	AJ							
	AK							
	AL							
	AM							
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							
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	AQ							
Examiner PHUC T. DANG			Date Considered 4/24/06					
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PD	AA	4,955,523	09/1990	Calomagno et al.	228	179	—	
↑	AB	4,970,571	11/1990	Yamakawa et al.	357	71	—	
	AC	4,984,358	01/1991	Nelson	29	830	—	
	AD	5,074,947	12/1991	Estes et al.	156	307.3	—	
	AE	5,106,461	04/1992	Volfson et al.	205	125	—	
	AF	5,116,463	05/1992	Lin et al.	156	653	—	
	AG	5,137,845	08/1992	Lochon et al.	437	183	—	
	AH	5,167,992	12/1992	Lin et al.	427	437	—	
	AI	5,196,371	03/1993	Kulesza et al.	437	183	—	
	AJ	5,209,817	05/1993	Ahmad et al.	156	643	—	
	AK	5,237,130	08/1993	Kulesza et al.	174	260	—	
	AL	5,260,234	11/1993	Long	437	203	—	
PD	AM	5,261,593	11/1993	Casson et al.	228	180.22	—	
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
PD	AN	EP 0 718 882 A1	06/1996	European Patent Office	H01L	23/057	X	
PD	AO	WO 97/38563	10/1997	WIPO	H05K	1/03	X	
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)								
PD	AP	Markstein et al., "Controlling the Variables in Stencil Printing," Electronic Packaging & Production, February 1997, pp. 48-56.						
PD	AQ	Elenius, "Choosing a Flip Chip Bumping Supplier - Technology an IC Package contractor should look for," Advanced Packaging, March/April 1998, pp. 70-73.						
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PD	AA	5,275,330	01/1994	Issacs et al.	228	180.2	—	
↑	AB	5,284,796	02/1994	Nakanishi et al.	437	183	—	
	AC	5,293,067	03/1994	Thompson et al.	257	668	—	
	AD	5,327,010	07/1994	Uenaka et al.	257	679	—	
	AE	5,334,804	08/1994	Love et al.	174	267	—	
	AF	5,346,750	09/1994	Hatakeyama et al.	428	209	—	
	AG	5,355,283	10/1994	Marrs et al.	361	760	—	
	AH	5,358,621	10/1994	Oyama	205	123	—	
	AI	5,397,921	03/1995	Karnezos	257	779	—	
	AJ	5,407,864	04/1995	Kim	437	203	—	
	AK	5,424,245	06/1995	Gurtler et al.	437	183	—	
↓	AL	5,438,477	08/1995	Pasch	361	689	—	
PD	AM	5,439,162	08/1995	George et al.	228	180.22	—	
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
PD	AN	WO 99/57762	11/1999	WIPO	H01L	23/48	X	
	AO							
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)								
PD	AP	Erickson, "Wafer Bumping: The Missing Link for DCA," Electronic Packaging & Production, July 1998, pp. 43-46.						
PD	AQ	Kuchenmeister et al., "Film Chip Interconnection Systems Prepared By Wet Chemical Metallization," IEEE publication 0-7803-4526-6/98, June 1998, 5 pages.						
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PD	AA	5,447,886	09/1995	Rai	437	183	—	
↑	AB	5,454,161	10/1995	Beilin et al.	29	852	—	
	AC	5,454,928	10/1995	Rogers et al.	205	125	—	
	AD	5,475,236	12/1995	Yoshizaki	257	48	—	
	AE	5,477,933	12/1995	Nguyen	174	262	—	
	AF	5,478,007	12/1995	Marrrs	228	180.22	—	
	AG	5,483,421	01/1996	Gedney et al.	361	771	—	
	AH	5,484,647	01/1996	Nakatani et al.	428	209	—	
	AI	5,487,218	01/1996	Bhatt et al.	29	852	—	
	AJ	5,489,804	02/1996	Pasch	257	778	—	
	AK	5,493,096	02/1996	Koh	219	121.71	—	
↓	AL	5,508,229	04/1996	Baker	437	183	—	
PD	AM	5,525,065	06/1996	Sobhani	439	67	—	
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)								
PD	AP	Ghaffarian, "Long Time BGA Assembly Reliability," Advancing Microelectronics, Vol. 25, No. 6, September/October 1998, pp. 20-23.						
PD	AQ	U.S. Application Serial No. 09/465,024, filed December 16, 1999, entitled "Bumpless Flip Chip Assembly With Solder Via"						
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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
PD	AA	5,536,973	07/1996	Yamaji	257	737	—	
/	AB	5,542,601	08/1996	Fallon et al.	228	119	—	
/	AC	5,547,740	08/1996	Higdon et al.	428	209	—	
/	AD	5,556,810	09/1996	Fujitsu	437	209	—	
/	AE	5,556,814	09/1996	Inoue et al.	437	230	—	
/	AF	5,564,181	10/1996	Dineen et al.	29	841	—	
/	AG	5,572,069	11/1996	Schneider	257	690	—	
/	AH	5,576,052	11/1996	Arledge et al.	427	98	—	
/	AI	5,583,073	12/1996	Lin et al.	439	183	—	
/	AJ	5,595,943	01/1997	Itabashi et al.	437	230	—	
/	AK	5,599,744	02/1997	Koh et al.	437	195	—	
/	AL	5,611,140	03/1997	Kulesza et al.	29	832	—	
PD	AM	5,611,884	03/1997	Bearinger et al.	156	325	—	
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	AN							
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PD	AP	U.S. Application Serial No. 09/464,562, filed December 16, 1999, entitled "Bumpless Flip Chip Assembly With Strips And Via-Fill"						
PD	AQ	U.S. Application Serial No. 09/464,561, filed December 16, 1999, entitled "Bumpless Flip Chip Assembly With Strips-In-Via And Plating"						
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P7	AA	5,613,296	03/1997	Kurino et al.	29	852	—	
↑	AB	5,614,114	03/1997	Owen	219	121.66	—	
	AC	5,615,477	04/1997	Sweitzer	29	840	—	
	AD	5,619,791	04/1997	Lambrecht Jr. et al.	29	852	—	
	AE	5,627,405	05/1997	Chillara	257	668	—	
	AF	5,627,406	05/1997	Pace	257	700	—	
	AG	5,633,204	05/1997	Tago et al.	438	614	—	
	AH	5,637,920	06/1997	Loo	257	700	—	
	AI	5,641,113	06/1997	Somaki et al.	228	180.22	—	
	AJ	5,645,628	07/1997	Endo et al.	106	1.23	—	
	AK	5,646,067	07/1997	Gaul	437	180	—	
↓	AL	5,648,686	07/1997	Hirano et al.	257	778	—	
P7	AM	5,654,584	08/1997	Fujitsu	257	666	—	
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PD	AA	5,656,858	08/1997	Kondo et al.	257	737	—	
↗	AB	5,663,598	09/1997	Lake et al.	257	737	—	
	AC	5,665,652	09/1997	Shimizu	438	127	—	
	AD	5,666,008	09/1997	Tomita et al.	257	778	—	
	AE	5,669,545	09/1997	Pham et al.	228	1.1	—	
	AF	5,674,785	10/1997	Akram et al.	437	217	—	
	AG	5,674,787	10/1997	Zhao et al.	437	230	—	
	AH	5,682,061	10/1997	Khandros et al.	257	666	—	
	AI	5,691,041	11/1997	Frankeny et al.	428	209	—	
	AJ	5,722,162	03/1998	Chou et al.	29	852	—	
	AK	5,723,369	03/1998	Barber	438	106	—	
	AL	5,731,223	03/1998	Padmanabhan	437	183	—	
PD	AM	5,736,456	04/1998	Akram	438	614	—	
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PP	AA	5,739,585	04/1998	Akram et al.	257	698	—	
↑	AB	5,744,859	04/1998	Ouchida	257	668	—	
	AC	5,757,071	05/1998	Bhansali	257	697	—	
	AD	5,757,081	05/1998	Chang et al.	257	778	—	
	AE	5,764,486	06/1998	Pendse	361	774	—	
	AF	5,774,340	06/1998	Chang et al.	361	771	—	
	AG	5,789,271	08/1998	Akram	438	18	—	
	AH	5,798,285	08/1998	Bentlage et al.	438	108	—	
	AI	5,801,072	09/1998	Barber	438	107	—	
	AJ	5,801,447	09/1998	Hirano et al.	257	778	—	
	AK	5,803,340	09/1998	Yeh et al.	228	56.3	—	
	AL	5,804,771	09/1998	McMahon et al.	174	255	—	
PP	AM	5,808,360	09/1998	Akram	257	738	—	
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PD	AA	5,811,879	09/1998	Akram	257	723	—	
A	AB	5,817,541	10/1998	Averkiou et al.	438	107	—	
	AC	5,822,856	10/1998	Bhatt et al.	29	832	—	
	AD	5,834,844	11/1998	Akagawa et al.	257	734	—	
	AE	5,861,666	01/1999	Bellaar	257	686	—	
	AF	5,863,816	01/1999	Cho	438	123	—	
	AG	5,870,289	02/1999	Tokuda et al.	361	779	—	
	AH	5,883,435	03/1999	Geffken et al.	257	758	—	
	AI	5,925,931	07/1999	Yamamoto	257	737	—	
	AJ	5,994,222	11/1999	Smith et al.	438	689	—	
	AK	6,012,224	01/2000	DiStefano et al.	29	840	—	
	AL	6,013,877	01/2000	Degani et al.	174	264	—	
PD	AM	6,018,196	01/2000	Noddin	257	777	—	
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PD	AA	6,020,561	02/2000	Ishida et al.	174	261	—	
↑ ↓	AB	6,037,665	03/2000	Miyazaki	257	773	—	
	AC	6,046,909	04/2000	Joy	361	748	—	
	AD	6,084,297	06/2000	Brooks et al.	257	698	—	
	AE	6,084,781	07/2000	Klein	361	771	—	
	AF	6,103,552	08/2000	Lin	438	113	—	
	AG	6,103,992	08/2000	Noddin	219	121.71	—	
PD	AH	6,127,204	10/2000	Isaacs et al.	438	106	—	
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PD	AA	4,442,967	04/1984	van de Pas et al.	228	159	—	
↑	AB	4,661,192	04/1987	McShane	156	292	—	
	AC	4,717,066	01/1988	Goldenberg et al.	228	179	—	
	AD	4,750,666	06/1988	Neugebauer et al.	228	160	—	
	AE	4,807,021	02/1989	Okumura	357	75	—	
	AF	4,925,083	05/1990	Farassat et al.	228	102	—	
	AG	4,937,653	06/1990	Blonder et al.	357	68	—	
	AH	5,014,111	05/1991	Tsuda et al.	357	68	—	
	AI	5,060,843	10/1991	Yasuzato et al.	228	179	—	
	AJ	5,090,119	02/1992	Tsuda et al.	29	843	—	
	AK	5,172,851	12/1992	Matsushita et al.	228	179	—	
↓	AL	5,294,038	03/1994	Nakano et al.	228	179.1	—	
PD	AM	5,364,004	11/1994	Davidson	228	1.1	—	
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PD	AA	5,485,949	01/1996	Tomura et al.	228	180.5	—	
↑	AB	5,686,353	11/1997	Yagi et al.	437	183	—	
↑	AC	5,813,115	09/1998	Misawa et al.	29	832	—	
↑	AD	6,017,812	01/2000	Yonezawa et al.	438	613	—	
↓	AE	6,088,236	07/2000	Tomura et al.	361	783	—	
PD	AF	6,159,770	12/2000	Tetaka et al.	438	112	—	
	AG							
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PD	AC	U.S. Application Serial No. 09/120,408, filed July 22, 1998, entitled "Flip Chip Assembly With Via Interconnection"						
↑	AD	U.S. Application Serial No. 09/643,212, filed August 22, 2000, entitled "Semiconductor Chip Assembly With Simultaneously Electroplated Contact Terminal and Connection Joint"						
	AE	U.S. Application Serial No. 09/643,214, filed August 22, 2000, entitled "Semiconductor Chip Assembly with Simultaneously Electrolessly Plated Contact Terminal and Connection Joint"						
	AF	U.S. Application Serial No. 09/643,213, filed August 22, 2000, entitled "Method Of Making A Support Circuit For A Semiconductor Chip Assembly"						
	AG	U.S. Application Serial No. 09/643,445, filed August 22, 2000, entitled "Method Of Making A Semiconductor Chip Assembly"						
	AH	U.S. Application Serial No. 09/665,928, filed September 20, 2000, entitled "Semiconductor Chip Assembly With Ball Bond Connection Joint"						
↓	AI	U.S. Application Serial No. 09/665,931, filed September 20, 2000, entitled "Method Of Making A Support Circuit With A Tapered Through-Hole For A Semiconductor Chip Assembly"						
	AJ	U.S. Application Serial No. 09/677,207, filed October 2, 2000, entitled "Method Of Making A Semiconductor Chip Assembly With A Conductive Trace Subtractively Formed Before And After Chip Attachment"						
Examiner		Date Considered						
PHUC T. DANG		4/24/06						
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your next communication to Applicant.								

Form PTO-1449 U.S. Department of Commerce, Patent and Trademark Office					Atty Docket No. BDG024-1		Serial No.	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)					Applicant Chuen Rong Leu et al.			
					Filing Date		Group Art Unit	
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
	AA							
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AB							
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)								
PD	AC	U.S. Application Serial No. 09/865,367, filed May 24, 2001, entitled "Semiconductor Chip Assembly With Simultaneously Electroplated Contact Terminal and Connection Joint"						
PD	AD	U.S. Application Serial No. 09/864,555, filed May 24, 2001, entitled "Semiconductor Chip Assembly with Simultaneously Electrolessly Plated Contact Terminal and Connection Joint"						
PD	AE	U.S. Application Serial No. 09/864,773, filed May 24, 2001, entitled "Semiconductor Chip Assembly With Ball Bond Connection Joint"						
Examiner PHUC T. DANG			Date Considered 4/24 /06					
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Form PTO-1449 U.S. Department of Commerce, Patent and Trademark Office					Atty Docket No. BDG024-1		Serial No.	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)					Applicant Chuen Rong Leu et al.			
					Filing Date		Group Art Unit 2818	
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
PD	AA	5,973,393	10/26/99	Chia et al.	257	690	—	
↑	AB	6,001,671	12/14/99	Fjelstad	438	112	—	
	AC	6,025,650	02/15/00	Tsuji et al.	257	786	—	
	AD	6,180,881	01/30/01	Isaak	174	52.4	—	
	AE	6,188,127	02/13/01	Senba et al.	257	686	—	
	AF	6,218,728	04/17/01	Kimura	257	693	—	
	AG	6,303,997	10/16/01	Lee	257	778	—	
	AH	6,483,718	11/19/02	Hashimoto	361	803	—	
↓	AI	6,504,241	01/07/03	Yanagida	257	686	—	
PD	AJ	6,608,371	08/19/03	Kurashima et al.	257	686	—	
	AK							
	AL							
	AM							
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
	AN							
	AO							
Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AP							
	AQ							
Examiner PHUC T. DANG			Date Considered 4/24/06					
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your next communication to Applicant.</p>								